

What is claimed is:

1. An electric motor comprising:
a stator core having main teeth and auxiliary teeth each formed in a slot between adjacent ones of the main teeth; and
coils respectively formed around said main teeth with said auxiliary teeth intervening adjacent ones of said coils.
2. An electric motor according to claim 1, wherein each of said auxiliary teeth has a shape such as to fill a gap between the adjacent ones of said coils.
3. An electric motor according to claim 1, wherein a torque and/or a cogging amount of the electric motor are adjusted by setting of lengths of said auxiliary teeth.
4. An electric motor according to claim 3, wherein lengths of said auxiliary teeth are set to be maximum values not greater than lengths of said main teeth and with which the electric motor has a cogging amount within an allowable amount.
5. An electric motor according to claim 3, wherein lengths of said auxiliary teeth are set to be values not greater than lengths of said main teeth and with which the electric motor has a minimum cogging amount.
6. An electric motor according to claim 1, wherein said stator core has a cylindrical shape to constitute a rotary motor.
7. An electric motor according to claim 1, wherein said stator core has a straight shape to constitute a linear motor.